Installation and Operation Manual

Provides Power to Platinum Network Sensors

NPS
Network Power Supply

The Network Power Supply (NPS) provides power for Heat-Timer network sensors. These can include all of the following:

4-20mA Transmitter	HT# 904043-00
Network Stack Temperature Sensor	HT# 904048-00
Network Pressure Sensor (0-30psi)	HT# 904065-00
Network Pressure Sensor (0-200psi	HT# 904066-00
Network Pressure Sensor (0-100psi)	HT# 904067-00
Oil Filter Monitoring Kit	HT# 950093-00
Network Room Space Temperature Sensor	HT# 904041-00
Water Counter Interface	HT# 904075-00
½" Water Counter	HT# 938001-00
¾" Water Counter	HT# 938002-00

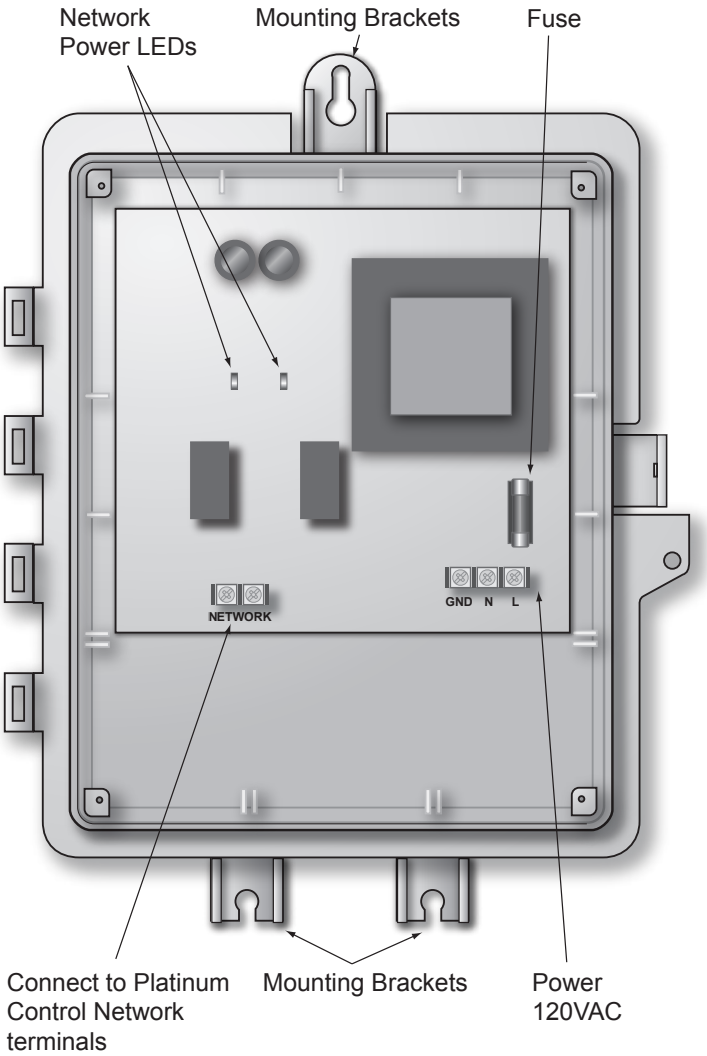
The NPS outputs 42VDC ± 1% and can power up to any 5 of the above network sensors.

⚠ ALERT

If the Heat-Timer network consists *ONLY* of MIGs, Wireless Sensor Link, or Oil Tank Levels, a NPS is not needed. The NPS is only needed to power the network sensors listed above.

MOUNTING THE ENCLOSURE

- Locate the NPS near the equipment to be controlled but away from excessively high or low temperatures.
- The surface should be flat and sufficiently wide and strong to hold the NPS.
- Screw the enclosure box to the surface using the enclosure external mounting brackets.
- Finish all the wiring, then lock the enclosure.



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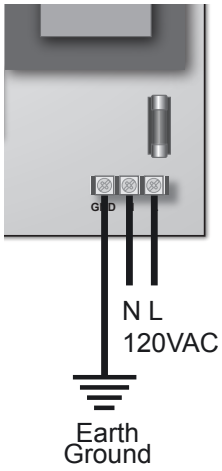
WIRING THE POWER INPUT

- The NPS requires 120VAC 60hz power.
- Connect the hot line to the terminal marked *L*. Connect the neutral line to the terminal marked *N*.
- The terminal marked *GND* must be connected to earth ground.



WIRING THE NETWORK OUTPUT

- Use 2-wire **unshielded twisted pair.** (See "Wire Specification" below).
- There is no polarity to observe. Either NPS output terminal can be wired to the Platinum Network Input Terminals (HWR, HWRQ, Multi-MOD, MPC, MPCQ, or SRC).
- If both Network Power LEDs are On, then the NPS is functioning properly.

TROUBLESHOOTING

CHECKING THE NETWORK POWER

- The Network Power LEDs must be On for the NPS to provide power to the network. If either of them is Off, then contact Heat-Timer Technical Support.
- Remove any wires connected to the NPS outputs.
- Test for 42VDC across the two screw terminals. If there is no voltage, the NPS may be damaged. Contact Heat-Timer Technical Support.
- If 42VDC is present, reconnect the NPS to the network.
- If after connecting 42VDC is not present, check the network wiring for shorts. If the wiring is correct, remove network sensors one at time from the network until the defective sensor is located.

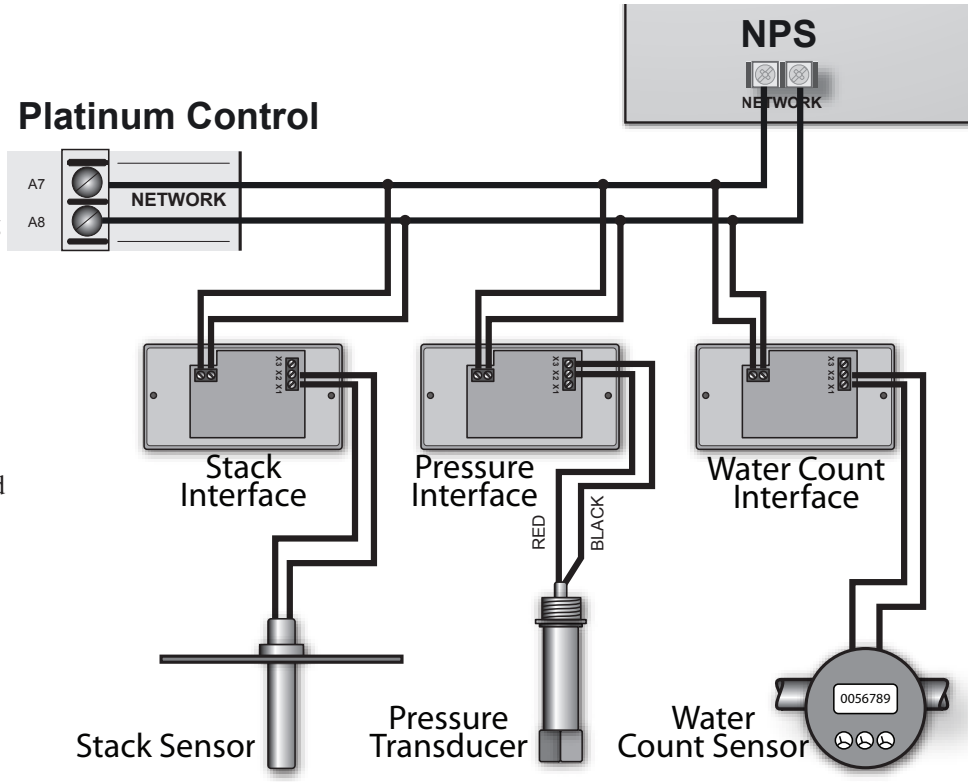
IF NETWORK SENSORS REGISTER DISCONNECTED

- Go to the sensor reading DISCONNECTED and check for network power (42VDC) at the sensor's *Network Terminals*. If network power is not present, follow the steps of"Checking the Network Power".
- If network power is present at the sensor's *Network Terminals*, check the type of sensor wiring (See "Wire Specification" below).

WIRE SPECIFICATION

Use one of the following unshielded twisted pair 16 AWG or equivalent for the Network Wiring.

WIRE	MAX LENGTH (FT.)	MAX TEMP. (°F)
Belden 8471	1200	140
Belden 85102	1500	185



For detailed interface wiring, see Interface Installation Instructions.

HT# 059108-00A

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